

Florian Cech



University Assistant / PhD Student at TU Wien
Software Engineer

born 1984, Austria

Languages

German
(Native)
English
(Excellent)

Florian Cech

Centre for Informatics and Society

Institute for Visual Computing &
Human-Centered Technology
Multidisciplinary Design & User
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Curriculum Vitæ

Education

1993 - 2001	Humanistic Gymnasium
2003 - 2010	Technical University of Vienna, Bachelor of Science (Media Informatics)
2010 - 2016	Technical University of Vienna, Master's degree in Media Informatics (MSc)
2011	ERASMUS Exchange Program: University of Århus, Denmark
2013	Google Summer of Code with the District Health Information System (DHIS2)
2016 -	University Assistant, Vienna University of Technology
2017 -	PhD Student, Vienna University of Technology

Career Excerpt

University Assistant / Pre-Doc, Vienna University of Technology - 2016 - *

My position at the Vienna University of Technology includes independent research and management, teaching, as well as organisational and administrative tasks with the goal of establishing and developing the newly created *Centre for Informatics and Society (CIS)*, an inter- and transdisciplinary research centre focused on the effects and future developments of computer science technologies and their impacts on society. As such, I am specializing on the research field of *Critical Algorithm Studies (CAS)*, investigating topics such as algorithmic accountability, transparency and ethics, which is also the focus of my PhD thesis and the classes I teach.

Senior Backend Developer & Project Lead, Wienfluss (www.wienfluss.net) - 2013 - *

Software Development: I am working with multiple customer's sites, including the European Energy Awards Toolset. My responsibilities include backend feature development, bug-fixing, security assessment and consulting, performance improvements, designing and implementing standardised software testing methodologies and concepts, as well as SysOps/DevOps development. Furthermore I have taken on additional responsibilities in project management and concept development for bidding processes and public tenders. In technological terms, I am currently working with Python, Ruby, Perl and Bash scripts, Vagrant/Docker virtual machine development, search engine development and optimization with ElasticSearch, as well as deployment automation with Ansible. My current project focus lies within large-scale scientific computing for an energy accounting online tool called EnerCoach.

Software Engineer, Partner4Media (www.partner4media.com) - 2008 - 2013

Software Development: Business Software f. Publishers (Java, JavaScript, Ruby, Python, JQuery, CSS, XML, Shell Scripts (Bash, Fish), Progress OpenEdge, Client/Server-Development, database programming and design in Progress, Oracle). I was responsible for the design, concept, development, user interface design and project management of an all-in-one business software. Customers included mid- to large-scale publishing houses in Austria, Germany and Switzerland.
System Administration/Network Administration: Windows, Linux, HPUX, Customer Support/Remote Support, Webservers (Apache, Apache Tomcat, Application Servers)

Teaching assistant - 2004-2008

Institute for Design and Assessment of Technology, TU Wien (Prof. P. Purgathofer)

Publications

Allhutter, D., Cech, F., Fischer, F., Grill, G., and Mager, A. 2020. Algorithmic profiling of job seekers in Austria: how austerity politics are made effective. *Frontiers in Big Data*, 1–28.

Cech, F. 2020. Beyond Transparency. *ACM*, 11–14.

Cech, F. 2017. Exploring emerging topics in social informatics: An online real-time tool for keyword co-occurrence analysis. 527–536.

Cech, F. and Tellioglu, H. 2019. Impact of the Digital Transformation: An Online Real-Time Delphi Study.

Cech, F. and Wagner, M. 2019. Erollin' on green: A case study on eco-feedback tools for emobility. 121–125.

Tellioglu, H., Habiger, M., and Cech, F. 2017. Infrastructures for Sense Making.

Skills

Academic Research & Organization

Experienced in research project design, conceptualisation, management and publication; grant applications;

Academic Management & Organisation

Organizing of scientific symposia, conferences and guest lectures; organisational development (strategic planning of the research centre CIS)

Academic Teaching Experience

Course development and teaching for multiple seminars, lectures and practical courses within the domains of *Critical Algorithm Studies* and *Human Centered & Socially Embedded Computing*

Programming Languages/Coding/Framworks

Multiple decades of experience - among others in Python, Java, web-based scripting/markup languages & libraries (HTML, XML, JavaScript, CSS, JQuery, Node.js, PHP, etc.) as well as multiple frameworks and CMS systems (Django, Pyramid / Pylons, Plone/ZOPE, etc.)

Databases

Many years of experience maintaining, designing and programming with (non-)relational databases like Progress RDBMS, Oracle Databases, PostgreSQL, MariaDB and NoSQL as well as query languages like OpenEdge and SQL

Software Engineering

Many years of experience in programming of client/server applications, object-oriented programming and design, network programming, user interface design and evaluation, database programming and design

Basic knowledge of graphic programming & image processing as well as game design

System Administration & Security

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Multiple Decades of experience in the areas system administration, security and user support f. Windows, Linux/Unix (Debian, Gentoo, Ubuntu, RedHat, SuSe, HPUX, etc.), Mac OS X
Server & Network Administration of 50+ concurrent instances/machines
High-performance and high-availability cluster administration (ElasticSearch, Redis, ClusterFS)

Graphics and Design

User experience in the Adobe product suite (Photoshop, Lightroom, Premiere)

Further Interests

Amongst others: alpine sports (alpine- and sports climbing, alpine- and tour skiing, snowboarding, hiking), Mountainbiking, Photography

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